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Selected Areas in Communications, IEEE Journal on, Volume: 18 , Issue: 5 , 1 2000

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2 The LEO-15 Long-term Ecosystem Observatory: design and installation

Forrester, N.C.; Stokey, R.P.; von Alt, C.; Allen, B.G.; Goldsborough, R.G.; Pu M.J.; Austin, T.C.;

OCEANS '97. MTS/IEEE Conference Proceedings , Volume: 2 , 6-9 Oct. 1997

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Niederstrasser, C.G.; Kitts, C.A.; Swartwout, M.A.;

Aerospace Conference, 1999. Proceedings. 1999 IEEE , Volume: 5 , 6-13 March 1999

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4 Operational consideration for use of GPS integrity information in the National Airspace System

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5 QualiTROL^(R) SENTRY^(R) transformer monitoring system

Barnes, M.F.;

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Bolcer, G.A.; Kaiser, G.;
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Hayashida, R.D.; Motter, J.; McDole, K.;
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*Forrester, N.C.; Stokey, R.P.; von Alt, C.; Allen, B.G.; Goldsborough, R.G.; Pu
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15 Adaptive network/service fault detection in transaction-oriented wireless area networks

Ho, L.L.; Cavuto, D.J.; Hasan, M.Z.; Feather, F.E.; Papavassiliou, S.; Zawadzki, A.G.;
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Jon Inouye, Jim Binkley, Jonathan Walpole

 September 1997 **Proceedings of the 3rd annual ACM/IEEE international conference on Mobile computing and networking**

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Hasina Abdu, Hanan Lutfiyya, Michael A. Bauer

 February 1996 **Proceedings of the 1996 ACM symposium on Applied Computing**

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Keywords: agents, configurations, directives, distributed systems, monitoring

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Nathan J. Muller

 July 1997 **International Journal of Network Management**, Volume 7 Issue 3

 Full text available: [pdf\(314.75 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)


Automating network and system management tasks has never been easier, since the advent of intelligent agents. This article describes the uses and advantages of intelligent agents, to identify and resolve problems locally, instead of dispatching technicians to remote locations, which is both expensive and time-consuming. © 1997 John Wiley & Sons, Ltd.

4 [Experimental evaluation of SUNOS IPC and TCP/IP protocol implementation](#)

Christos Papadopoulos, Gurudatta M. Parulkar

 April 1993 **IEEE/ACM Transactions on Networking (TON)**, Volume 1 Issue 2

 Full text available: [pdf\(1.75 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

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Paul Haggerty, Krishnan Seetharaman
October 1998 **Communications of the ACM**, Volume 41 Issue 10

Full text available: [pdf\(172.08 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

6 Software architecture: An integrated distributed systems management architecture

Michael A. Bauer, Pat J. Finnigan, James W. Hong, Jan K. Pachl, Toby J. Teorey
October 1993 **Proceedings of the 1993 conference of the Centre for Advanced Studies on Collaborative research: software engineering - Volume 1**

Full text available: [pdf\(1.08 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

As distributed systems get larger and more complex, there is an urgent need to manage their components in order to ensure reliable and efficient operations. Managing distributed systems entails monitoring the activities of their components and controlling their behavior as needed. This paper examines the requirements of managing distributed systems and proposes an integrated management architecture. The proposed architecture can provide the support for the management of not only the network serv ...

7 An extensible probe architecture for network protocol performance measurement

G. Robert Malan, Farnam Jahanian
October 1998 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM SIGCOMM '98 conference on Applications, technologies, architectures, and protocols for computer communication**, Volume 28 Issue 4

Full text available: [pdf\(1.83 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes the architecture and implementation of Windmill, a passive network protocol performance measurement tool. Windmill enables experimenters to measure a broad range of protocol performance metrics by both reconstructing application-level network protocols and exposing the underlying protocol layers' events. Windmill is split into three functional components: a dynamically compiled Windmill Protocol Filter (WPF), a set of abstract protocol modules, and an extensible experiment e ...

Keywords: online analysis, packet filter, passive measurement, protocol performance

8 Getting proactive network management from reactive network management tools

Timothy Chiu
February 1998 **International Journal of Network Management**, Volume 8 Issue 1

Full text available: [pdf\(145.53 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Typical network management tools fail to prevent network outages and downtime. Network managers can set up proactive network management with existing tools, using SNMP automatic actions, triggered by thresholds. © 1998 John Wiley & Sons, Ltd.

9 Distributed environment: Network management by delegation: the MAD approach

German Goldszmidt, Yechiam Yemini, Shaula Yemini
October 1991 **Proceedings of the 1991 conference of the Centre for Advanced Studies on Collaborative research**

Full text available: [pdf\(1.39 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Network management systems built on a client/server model centralize responsibilities in client manager processes, with server agents playing restrictive support roles. As a result, managers must micro-manage agents through primitive steps, resulting in ineffective distribution of management responsibilities, failure-prone management bottlenecks, and limitations for real time responsiveness. We present a more flexible paradigm, the Manager-

Agent Delegation (MAD) framework. It supports the abilit ...

10 A continuous media application supporting dynamic QOS control on real-time Mach

Tatsuo Nakajima, Hiroshi Tezuka

October 1994 **Proceedings of the second ACM international conference on Multimedia**

Full text available:  [pdf\(1.04 MB\)](#)

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A QOS control is one of the most important factors in continuous media applications. The QOS levels of the applications should be maintained even if several continuous media applications are running concurrently. Also, the QOS levels should be changed according to a number of applications and their respective importances when a system is overloaded. This paper presents our experience with a video-on-demand system that supports a dynamic QOS control scheme o ...

11 Migrating sockets—end system support for networking with quality of service guarantees

David K. Y. Yau, Simon S. Lam

December 1998 **IEEE/ACM Transactions on Networking (TON)**, Volume 6 Issue 6

Full text available:  [pdf\(369.10 KB\)](#)

Additional Information: [full citation](#), [references](#), [index terms](#)

Keywords: CPU scheduling, bandwidth scheduling, packet demultiplexing, quality of service guarantees, user level protocol

12 Tempest and typhoon: user-level shared memory

S. K. Reinhardt, J. R. Larus, D. A. Wood

April 1994 **ACM SIGARCH Computer Architecture News , Proceedings of the 21ST annual international symposium on Computer architecture**, Volume 22 Issue 2

Full text available:  [pdf\(1.44 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Future parallel computers must efficiently execute not only hand-coded applications but also programs written in high-level, parallel programming languages. Today's machines limit these programs to a single communication paradigm, either message-passing or shared-memory, which results in uneven performance. This paper addresses this problem by defining an interface, *Tempest*, that exposes low-level communication and memory-system mechanisms so programmers and compilers can customize polici ...

13 Improving and managing multimedia performance over TCP-IP nets

Nathan J. Muller

December 1998 **International Journal of Network Management**, Volume 8 Issue 6

Full text available:  [pdf\(338.34 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

The TCP-IP-based Internet and, consequently corporate Intranets, were not designed for multimedia traffic. This article discusses the several ways of improving multimedia performance, finding that data compression techniques are no longer the most important factor. © 1998 John Wiley & Sons, Ltd.

14 Tempest and typhoon: user-level shared memory

Steven K. Reinhardt, James R. Larus, David A. Wood

August 1998 **25 years of the international symposia on Computer architecture (selected papers)**

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15 Operating system: System support for mobility

Andrew Black, Jon Inouye

September 1996 **Proceedings of the 7th workshop on ACM SIGOPS European workshop: Systems support for worldwide applications**

Full text available: [!\[\]\(b3131996c2d47980618867ba93d92313_img.jpg\) pdf\(395.35 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

As we move closer to world-wide networking and the merger of computing and communications, truly mobile computing---computing while on the move---will become as unexceptional as truly mobile communication (using cellular telephones) is today. However, mobile computing poses new challenges for both system and application designers. Unlike telephony, where a new communications and terminal infrastructure was created to provide a well-understood service (peer-to-peer voice communication), and inter ...

16 Client-server computing

Alok Sinha

July 1992 **Communications of the ACM**, Volume 35 Issue 7

Full text available: [!\[\]\(e10db9d69cb0b265e01951fb48872059_img.jpg\) pdf\(7.53 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

Keywords: client-server computing

17 MODSIM III—a tutorial with advances in database access and HLA support

John Goble, Brian Wood

December 1998 **Proceedings of the 30th conference on Winter simulation**

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18 SNA and OSI: three strategies for interconnection

Matthew A. Tillman, David C.-C. Yen

February 1990 **Communications of the ACM**, Volume 33 Issue 2

Full text available: [!\[\]\(7a46e95487f33e1626db2421f41f660d_img.jpg\) pdf\(1.03 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

The rise of the Open Systems Interconnection Reference Model (OSI) in the past five years is forcing IBM to rethink its plans for its proprietary network standard Systems Network Architecture (SNA). This article reviews three interconnection strategies to be considered.

19 AP1000+: architectural support of PUT/GET interface for parallelizing compiler

Kenichi Hayashi, Tsunehisa Doi, Takeshi Horie, Yoichi Koyanagi, Osamu Shiraki, Nobutaka Imamura, Toshiyuki Shimizu, Hiroaki Ishihata, Tatsuya Shindo

November 1994 **Proceedings of the sixth international conference on Architectural support for programming languages and operating systems**, Volume 29, 28 Issue 11 , 5

Full text available: [!\[\]\(4d39aa7e4807a81bbe6ea868343b879b_img.jpg\) pdf\(1.41 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The scalability of distributed-memory parallel computers makes them attractive candidates for solving large-scale problems. New languages, such as HPF, FortranD, and VPP Fortran, have been developed to enable existing software to be easily ported to such machines. Many distributed-memory parallel computers have been built, but none of them support the

mechanisms required by such languages. We studied the mechanisms required by parallelizing compilers and proposed a new architecture to suppo ...

20 Human diversity and the choice of interface: A design challenge



Starr Roxanne Hiltz, Murray Turoff

May 1981 **ACM SIGSOC Bulletin , Proceedings f the joint conference on Easier and more productive use of computer systems. (Part - II): Human interface and the user interface - Volume 1981**, Volume 13 Issue 2-3

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... health and are used to **monitor** compliance with ... respect to rights in standards-**track** and standards ... Forum, Frame Relay/ATM PVC **Network** Interworking Implementation ...

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... file and uses it to load and **monitor** the AG ... multiplexed (TDM) serial data on an individual **track** or wire ... on boards that interface the telephone **network** to the ...

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